

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

2

IN THE CLAIMS

Applicant is amending the claims so that, after amendment, they will read as set forth in the clean version of the claims which appears below. For the convenience of the Examiner, all of the pending claims are set forth below, whether amended or not. Further, the claims are set forth below in logical order, rather than in numerical order. Enclosed with this Amendment is a marked-up version of the amended claims, showing in bold type the changes which have been made to the claims by this Amendment.

Please cancel Claims 3, 7, 47, 49 and 51 without prejudice.

1. An apparatus for processing financial transactions, comprising:

a memory operable to store information and a program, the memory further operable to store a first message indicating the making of a financial transaction, the first message including customer information and transaction information; and

a processor coupled to the memory, the processor, according to the program, operable to:

determine the validity of the customer information,
generate a second message indicating non-authorization of the financial transaction if the customer information is invalid,

determine whether the financial transaction involves a micro-payment if the customer information is valid,

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

3

instruct the memory to store at least part of the transaction information and generate a third message indicating authorization of the financial transaction if the financial transaction involves a micro-payment, and generate an authorization request if the financial transaction does not involve a micro-payment.

2. The apparatus of Claim 1, further comprising a communication interface adapted to be coupled to a communication link and coupled to the memory, the communication interface operable to receive information from and send information over the communication link.

4. The apparatus of Claim 1, wherein:
the customer information comprises a digital certificate;
and

the transaction information comprises the time of initiation of the financial transaction, the amount of the financial transaction, and a customer account identifier.

5. The apparatus of Claim 4, wherein the customer account identifier represents a credit card account.

6. The apparatus of Claim 4, wherein the digital certificate complies with X.509.

8. The apparatus of Claim 1, wherein the processor is further operable to determine whether the customer information is in an appropriate format and is associated with an account that is in good standing to determine the validity of the customer information.

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

4

9. The apparatus of Claim 1, wherein the processor is further operable to generate a validation request based on the customer information, receive a validation response indicating the validity of the customer information, and analyze the validation response to determine the validity of the customer information.

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10. (Amended) The apparatus of Claim 1, wherein the processor effects the determination of whether the financial transaction involves a micro-payment as a function of at least one of: whether the amount of the financial transaction is below a predetermined threshold, a frequency of such financial transactions, and an identity of the customer.

11. The apparatus of Claim 1, wherein the processor is further operable to instruct the memory to store the time of initiation of the financial transaction, the amount of the financial transaction, and a customer account identifier to instruct the memory to store at least part of the transaction information.

12. The apparatus of Claim 1, wherein the processor is further operable to instruct the memory to store, in a buffer, at least part of the transaction information for each of a plurality of financial transactions that involves a micro-payment.

55. (New) The apparatus of Claim 12, wherein the processor is further operable to generate a message to settle all of the financial transactions stored in the buffer as a function of at least one of: the number of financial transactions in the buffer, an aggregate value of the

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

5

financial transactions in the buffer, and the occurrence of a designated time.

13. The apparatus of Claim 1, wherein the processor is further operable to generate a fourth message to settle the financial transaction based on the stored part of the transaction information.

14. The apparatus of Claim 13, wherein the processor generates the fourth message at a designated time.

15. The apparatus of Claim 1, wherein:
the first message includes merchant information; and
the processor is further operable to determine whether the merchant information is valid, generate the second message if the merchant information is invalid, and determine whether the financial transaction involves a micro-payment only if the merchant information is valid.

16. The apparatus of Claim 15, wherein the merchant information comprises a digital certificate.

17. The apparatus of Claim 15, wherein the processor is further operable to instruct the memory to store, in a buffer, at least part of the transaction information for each of a plurality of financial transactions that involves a micro-payment and is associated with the merchant information.

18. The apparatus of Claim 17, wherein the processor is further operable to generate a fifth message to settle all of the financial transactions based on the part of the

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

6

transaction information stored for each financial transaction in the buffer.

19. (Amended) A method for processing financial transactions, comprising:

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receiving a first message indicating the making of a financial transaction, the first message including customer information and transaction information;

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determining the validity of the customer information;
generating a second message indicating non-authorization of the financial transaction if the customer information is invalid;

determining in an automated manner whether the financial transaction involves a micro-payment if the customer information is valid;

if the financial transaction involves a micro-payment:

storing at least part of the transaction information, and

generating a third message indicating authorization of the financial transaction; and

if the financial transaction does not involve a micro-payment, generating an authorization request.

20. The method of Claim 19, wherein receiving a first message including transaction information comprises receiving the time of initiation of the financial transaction, the amount of the financial transaction, and a customer account identifier.

21. The method of Claim 20, wherein the customer account identifier represents a credit card account.

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

7

22. The method of Claim 19, wherein:
the customer information comprises a digital certificate;
and

determining the validity of the customer information
comprises determining the validity of the digital certificate.

23. The method of Claim 19, wherein determining the
validity of the customer information comprises generating a
validation request based on the customer information,
receiving a validation response indicating the validity of the
customer information, and analyzing the validation response.

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24. (Amended) The method of Claim 19, wherein the
determining of whether the financial transaction involves a
micro-payment is effected as a function of at least one of:
whether the amount of the financial transaction is below a
predetermined threshold, a frequency of such financial
transactions, and an identity of the customer.

25. The method of Claim 19, wherein storing at least
part of the transaction information comprises storing the time
of initiation of the financial transaction, the amount of the
financial transaction, and a customer account identifier.

26. The method of Claim 19, further comprising storing
at least part of the transaction information for each of a
plurality of financial transactions that involves a micro-
payment.

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56. (New) The method of Claim 26, further comprising
generating of a message to settle all of the stored financial
transactions as a function of at least one of: the number of

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

8

stored financial transactions, an aggregate value of the stored financial transactions, and the occurrence of a designated time.

27. The method of Claim 19, further comprising generating a fourth message to settle the financial transaction based on the stored part of the transaction information.

28. The method of Claim 27, wherein generating a fourth message to settle the financial transaction comprises generating the fourth message at a designated time.

29. The method of Claim 19, wherein the first message includes merchant information, and further comprising:
determining the validity of the merchant information;
generating the second message if the merchant information is invalid; and

determining whether the financial transaction involves a micro-payment only if the merchant information is valid.

30. The method of Claim 29, wherein the merchant information comprises a digital certificate.

31. The method of Claim 29, further comprising storing, in a buffer, at least part of the transaction information for each of a plurality of financial transactions that involves a micro-payment and is associated with the merchant information.

32. The method of Claim 31, further comprising generating a fifth message to settle all of the financial

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

9

transactions based on the part of the transaction information stored for each financial transaction in the buffer.

33. A set of logic encoded in media for processing financial transactions, the logic operable to perform the following operations:

- detect the reception of a first message indicating the making of a financial transaction, the first message including customer information and transaction information;

- determine the validity of the customer information;

- generate a second message indicating non-authorization of the financial transaction if the customer information is invalid;

- determine whether the financial transaction involves a micro-payment if the customer information is valid;

- if the financial transaction involves a micro-payment:

- instruct a memory to store at least part of the transaction information, and

- generate a third message indicating authorization of the financial transaction; and

- if the financial transaction does not involve a micro-payment, generate an authorization request.

34. The logic of Claim 33, wherein the transaction information includes the time of initiation of the financial transaction, the amount of the financial transaction, and a customer account identifier.

35. The logic of Claim 34, wherein the customer account identifier represents a credit card account.

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

10

36. The logic of Claim 33, wherein:
the customer information comprises a digital certificate;
and

the logic is further operable to determine the validity
of the digital certificate to determine the validity of the
customer information.

37. The logic of Claim 33, wherein the logic is further
operable to generate a validation request based on the
customer information, receive a validation response indicating
the validity of the customer information, and analyze the
validation response to determine the validity of the customer
information.

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38. (Amended) The logic of Claim 33, wherein the logic
is further operable to effect the determination of whether the
financial transaction involves a micro-payment as a function
of at least one of: whether the amount of the financial
transaction is below a predetermined threshold, a frequency of
such financial transactions, and an identity of the customer.

39. The logic of Claim 33, wherein the logic is further
operable to instruct the memory to store the time of
initiation of the financial transaction, the amount of the
financial transaction, and a customer account identifier to
instruct a memory to store at least part of the transaction
information.

40. The logic of Claim 33, wherein the logic is further
operable to instruct the memory to store at least part of the
transaction information for each of a plurality of financial
transactions that involves a micro-payment.

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

11

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57. (New) The logic of Claim 33, wherein the logic is further operable to generate a message to settle all of the financial transactions stored in the memory as a function of at least one of: the number of financial transactions in the memory, an aggregate value of the financial transactions in the memory, and the occurrence of a designated time.

41. The logic of Claim 33, wherein the logic is further operable to generate a fourth message to settle the financial transaction based on the stored part of the transaction information.

42. The logic of Claim 41, wherein the logic is further operable to generate the fourth message at a designated time.

43. The logic of Claim 33, wherein the first message includes merchant information, and the logic is further operable to:

determine the validity of the merchant information;
generate the second message if the merchant information is invalid; and

determine whether the financial transaction involves a micro-payment only if the merchant information is valid.

44. The logic of Claim 43, wherein the merchant information comprises a digital certificate.

45. The logic of Claim 43, wherein the logic is further operable to instruct the memory to store, in a buffer, at least part of the transaction information for each of a

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

12

plurality of financial transactions that involves a micro-payment and is associated with the merchant information.

46. The logic of Claim 45, wherein the logic is further operable to generate a fifth message to settle all of the financial transactions based on the part of the transaction information stored for each financial transaction in the buffer.

48. (Amended) An apparatus for processing financial transactions, comprising:

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a communication interface adapted to be coupled to a communication link, the communication interface operable to receive information from and send information over the communication link, the communication interface further operable to receive a first message indicating the making of a financial transaction, the first message including customer information, merchant information, and transaction information;

a memory coupled to the communication interface, the memory operable to store information and a program;

a processor coupled to the memory, the processor, according to the program, operable to:

generate a validation request based on the customer information and the merchant information,

receive a validation response indicating the validity of the customer information and the merchant information,

generate a second message indicating non-authorization of the financial transaction if either the customer information or the merchant information is invalid,

ATTORNEY DOCKET NUMBER
014208.1388 (70-00-005)

PATENT APPLICATION
Serial No. 09/800,535

13

determine, if both the customer information and the merchant information are valid, whether the financial transaction involves a micro-payment,

if the financial transaction involves a micro-payment, instruct the memory to store at least part of the transaction information in a buffer and generate a third message indicating authorization of the financial transaction,

if the financial transaction does not involve a micro-payment, generate an authorization request, receive an authorization response, and generate a fourth message indicating the authorization status of the financial transaction, and

generate a fifth message to settle the financial transaction based on the part of the transaction information stored in the buffer.

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58. (New) The apparatus of Claim 48, wherein the processor effects the determination of whether the financial transaction involves a micro-payment as a function of at least one of: whether the amount of the financial transaction is below a predetermined threshold, a frequency of such financial transactions, and an identity of the customer.

50. The apparatus of Claim 48, wherein:
the customer information comprises a digital certificate;
the merchant information comprises a digital certificate;
and

the transaction information comprises the time of initiation of the financial transaction, the amount of the financial transaction, and a customer account identifier.